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=> s agrobacterium(w)mediated(w)transformation
L1 21 AGROBACTERIUM(W) MEDIATED(W) TRANSFORMATION

=> s l1 and popular
L2 6 L1 AND POPULAR

=> d l2 1-6

L2 ANSWER 1 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2000:128152 BIOSIS
DN PREV200010124152
TI Construction of small binary vectors for **Agrobacterium-mediated transformation** in plants.
AU Lee, Jeong Hwa; Kang, Young Na; Kim, Yong A.; Kim, Dae Heon; Hwang, Inowan I
CS (1) Department of Life Science and Center for Plant Intracellular Trafficking, Pohang University of Science and Technology (POSTECH), Pohang, 790-784 South Korea
SO Journal of Plant Biology., (Dec., 1999) Vol. 42, No. 4, pp. 317-320. ISSN: 1226-9239.
DT Article
LA English
SL English

L2 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1995:104034 BIOSIS
DN PREV199598122334
TI **Agrobacterium-mediated transformation** of poplar using a disarmed binary vector and the overexpression of a specific member of a family of **popular** peroxidase genes in transgenic poplar cell.
AU Kajita, Shinya; Osakabe, Kei hi; Katayama, Yoshihiro (1); Kawai, Shinya; Matsunaga, Yasuo; Hata, Kunio; Morohoshi, Noriyuki
CS [illegible] Cooperative Res. Cent., Tokyo Univ. Agric. Technol., Koganei-shi, Tokyo 184 Japan
SO Plant Science (Limerick), (1994) Vol. 103, No. 2, pp. 231-239. ISSN: 0168-9452.
DT Article
LA English

L2 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 1994:456200 BIOSIS
DN PREV199497449200
TI Expression of the mutant Arabidopsis thaliana acetolactate synthase gene

confers chlorsulfuron resistance to transgenic **popular** plants.
AU Brasileiro, Ana Cristina Miranda; Tourneur, Colette; Leple, Jean-Charles; Combes, Valerie; Jouanin, Lise [1]
CS [1] Laboratoire de Biologie Cellulaire, INRA, route de Saint-Cyr, F-78026 Versailles Cedex France
SO Transgenic Research, (1992) Vol. 1, No. 3, pp. 133-141.
ISSN: 0962-8819.
DT Article
LA English

L2 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 2000:312048 CAPLUS
DN 133:319356
TI In vitro regeneration and **Agrobacterium-mediated transformation** of Phaseolus vulgaris L. (common bean) and P. acutifolius A. Gray (tepary bean)
AU Dillen, W.; Clarbre, M.; De Clercq, J.; Grossens, A.; Kapila, J.; Vranova, E.; Van Montagu, M.; Angenon, G.
CS Laboratorium voor Genetica, Department Genetica, Vlaams Interuniversitair Instituut voor Biotechnologie (VIB), Universiteit Gent, Ghent, B-9000, Belg.
SO Acta Horticulturae (2000), 508 (Proceedings of the XXV International Horticultural Congress, 1998, Pt. 11:, 53-55
CODEN: AHORA2; ISSN: 1[illegible]-7572
PB International Society for Horticultural Science
DT Journal
LA English
RE.CNT 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 2000:368402 CAPLUS
DN 133:190437
TI Towards novel flower colors in Forsythia by genetic engineering
AU Rosati, C.; Simon, M.; Madia, A.; Rosati, C.; Simoneau, Ph.
CS Unite d'Amelioration des Especes Fruitieres et Ornementales, INRA C.R. Angers, Beaucouze, 49071, Fr.
SO Acta Horticulturae (2000), 508 (Proceedings of the Nineteenth International Symposium on Improvement of Ornamental Plants, 1998), 45-48
CODEN: AHORA2; ISSN: 0567-7572
PB International Society for Horticultural Science
DT Journal; General Review
LA English
RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2002 ACS
AN 2000:110277 CAPLUS
DN 132:145577
TI Construction of small binary vectors for **Agrobacterium-mediated transformation** in plants
AU Lim, Jeong Hwa; Pang, Young Na; Kim, Young A.; Kim, Dae Heon; Hwang, Inhwan
CS Department of Life Science and Center for Plant Intracellular Trafficking, Pohang University of Science and Technology (POSTECH), Pohang, 790-784, S. Korea
SO Journal of Plant Biology (1999), 42(4), 317-320
CODEN: JPBIFI; ISSN: 1226-9239
PB Botanical Society of Korea
DT Journal
LA English
RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Jun 21, 2002 (20020621/UP).

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2 ANSWER 2 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB An efficient method was established for transformation of the poplar hybrid Populus kitakamiensis (Populus sieboldii times Populus gradidentata) using a binary disarmed strain of Agrobacterium tumefaciens LBA4404 and T-binary vectors. The frequency of transformation of poplar leaf segments reached as high as 60%. In transgenic poplar plants, the gene for beta-glucuronidase (gus) was expressed at high levels under the control of the cauliflower mosaic virus 35S (CaMV35S) promoter. Poplars possess a number of peroxidase isozymes whose pattern of expression is tissue-specific, developmentally regulated and influenced by environmental factors. We altered the expression of a peroxidase isozyme by introducing an identified genomic gene for a peroxidase (prxA1) under the control of the CaMV35S promoter. Transgenic poplars obtained by introducing the chimeric peroxidase gene (CaMV35S promoter-prxA1) were shown to have an increase in total peroxidase activity that was accounted for by the specific overproduction of the peroxidase isozyme(PrxA1). From this study, the anionic peroxidase isozyme encoded by the identified genomic gene, prxA1, was demonstrated to be the anionic peroxidase isozyme with a pI of 4.4 among various isozymes of poplar peroxidase. On the basis of this assignment, we characterized the tissue-specific and UV-light-inducible regulation of expression of this isozyme.

L2 ANSWER 3 OF 6 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AB The mutant acetolactate synthase (csr1-1) gene from Arabidopsis thaliana, which confers resistance to the herbicide chlorsulfuron, was transferred to a hybrid poplar (Populus tremula times P. alba) using two **Agrobacterium-mediated transformation** methods (co-inoculation and co-cultivation). Two different constructs were used. In one, the mutant csr1-1 gene was placed under the control of its own promoter, and, in the other, this gene was under the control of the duplicated cauliflower mosaic virus 35S promoter (70 promoter). The transformation efficiency ranged from 22 to 31% of the tumours in co-inoculation and from 67 to 77% of the stem explants in co-cultivation experiments. The usefulness of the herbicide chlorsulfuron as a selectable marker gene was also demonstrated. Successful genetic transformation was verified by Southern and northern analyses and enzyme activity. Plants carrying the csr1-1 mutant gene under the control of the 70 promoter showed high levels of transcription and activity whereas plants carrying the native csr1-1 gene showed low levels of expression. However, transgenic plants expressing each of the chimaeric csr1-1 genes are completely resistant to high doses of chlorsulfuron in greenhouse tests.

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